

## Effectiveness of the random sequential absorption algorithm in the analysis of volume elements with nanoplatelets - DTU Orbit (08/11/2017)

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In this work, a study of the Random Sequential Absorption (RSA) algorithm in the generation of nanoplatelet Volume Elements (VEs) is carried out. The effect of the algorithm input parameters on the reinforcement distribution is studied through the implementation of statistical tools, showing that the platelet distribution is systematically affected by these parameters. The consequence is that a parametric analysis of the VE input parameters may be biased by hidden differences in the filler distribution. The same statistical tools used in the analysis are implemented in a modified RSA algorithm to overcome this issue.

#### General information

State: Published

Organisations: Department of Wind Energy, Composites and Materials Mechanics, University of Padova

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Number of pages: 7

Pages: 511-517

Publication date: 2016

Main Research Area: Technical/natural sciences

#### Publication information

Journal: Computational Materials Science

Volume: 117

ISSN (Print): 0927-0256

Ratings:

BFI (2017): BFI-level 1

Web of Science (2017): Indexed Yes

BFI (2016): BFI-level 1

Scopus rating (2016): SJR 0.926 SNIP 1.259 CiteScore 2.37

Web of Science (2016): Indexed yes

BFI (2015): BFI-level 1

Scopus rating (2015): SJR 0.993 SNIP 1.348 CiteScore 2.3

Web of Science (2015): Indexed yes

BFI (2014): BFI-level 1

Scopus rating (2014): SJR 1.129 SNIP 1.677 CiteScore 2.47

Web of Science (2014): Indexed yes

BFI (2013): BFI-level 2

Scopus rating (2013): SJR 0.965 SNIP 1.337 CiteScore 2.15

ISI indexed (2013): ISI indexed yes

Web of Science (2013): Indexed yes

BFI (2012): BFI-level 2

Scopus rating (2012): SJR 1.022 SNIP 1.647 CiteScore 2.14

ISI indexed (2012): ISI indexed yes

Web of Science (2012): Indexed yes

BFI (2011): BFI-level 2

Scopus rating (2011): SJR 0.996 SNIP 1.46 CiteScore 1.97

ISI indexed (2011): ISI indexed yes

Web of Science (2011): Indexed yes

BFI (2010): BFI-level 2

Scopus rating (2010): SJR 0.961 SNIP 1.257

Web of Science (2010): Indexed yes

BFI (2009): BFI-level 2

Scopus rating (2009): SJR 0.978 SNIP 1.308

Web of Science (2009): Indexed yes

BFI (2008): BFI-level 2

Scopus rating (2008): SJR 0.919 SNIP 1.3

Web of Science (2008): Indexed yes

Scopus rating (2007): SJR 0.682 SNIP 1.029

Scopus rating (2006): SJR 0.852 SNIP 1.474

Scopus rating (2005): SJR 1.161 SNIP 1.327

Scopus rating (2004): SJR 0.915 SNIP 1.06

Scopus rating (2003): SJR 0.61 SNIP 0.775

Web of Science (2003): Indexed yes

Scopus rating (2002): SJR 0.576 SNIP 0.705

Scopus rating (2001): SJR 0.539 SNIP 0.752

Scopus rating (2000): SJR 0.489 SNIP 0.761

Web of Science (2000): Indexed yes

Scopus rating (1999): SJR 0.865 SNIP 0.791

Original language: English

Materials Science (all), Chemistry (all), Computer Science (all), Physics and Astronomy (all), Computational Mathematics, Mechanics of Materials, A. Volume element, B. Statistical analysis, C. Nanoplatelet, D. Parametric analysis, E. Algorithm, Algorithms, Statistical mechanics, Filler distribution, Input parameter, Nanoplatelet, Parametric -analysis, Random sequential absorption, Reinforcement distributions, Statistical tools, Volume elements, Parameter estimation

DOIs:

10.1016/j.commatsci.2016.02.024

Source: FindIt

Source-ID: 2298443452

Publication: Research - peer-review › Journal article – Annual report year: 2016